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10/037,003	10/19/2001	Fatih M. Uckun	12152.107USUI	5692	
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MERCHANT & GOULD PC			EXAMINER		
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			TRAVERS, R	TRAVERS, RUSSELL S	
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Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. 10/037,003 Applicant(s)

Examiner

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Uckun et al

R.S. Travers J.D., Ph.D. 1617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) X Responsive to communication(s) filed on May 16, 2003 2a) This action is **FINAL**. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-8, 10-12, and 14-44 is/are pending in the application. 4a) Of the above, claim(s) 1-8, 10-12, and 31-44 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) 💢 Claim(s) <u>14-30</u> is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. are subject to restriction and/or election requirement. 8) Claims Application Papers 9) The specification is objected to by the Examiner. is/are a)  $\square$  accepted or b)  $\square$  objected to by the Examiner. 10) ☐ The drawing(s) filed on Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12)  $\square$  The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some\* c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \*See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:

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The amendment filed January 8, 2003 has been received and entered into the file.

Claims 1-8, 10-12 and 14-44 are presented for examination.

Newly submitted claims 16-29 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Applicant's election with traverse of Group II, Claims 14-30 in Paper No. 9 is acknowledged. The traversal is on the ground(s) that no undue burden would be placed on Examiner. This is not found persuasive because the instant invention's nature are different. A search for a method of use requires a separate and distinct search based on the intended use. Searches for compositions of matter would not be limited to the instant envisioned use.

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-8, 10-12 and 31-44 reading on non-elected subject matter will be withdrawn form consideration.

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to adequately teach how to make and/or use the invention, and thereby failing to provide an enabling disclosure.

The instant specification fails to provide information that would allow the skilled artisan to practice the instant invention without undue experimentation. Attention is directed to *In re Wands*, 8 USPQ2d 1400 (CAFC 1988) at 1404 where the court set forth the eight factors to consider when assessing if a disclosure would have required undue experimentation. Citing *Ex parte Forman*, 230 USPQ 546 (BdApls 1986) at 547 the court recited eight factors:

- 1) the quantity of experimentation necessary,
- 2) the amount of direction or guidance provided,
- 3) the presence of absence of working examples,
- 4) the nature of the invention,
- 5) the state of the prior art,
- 6) the relative skill of those in the art
- 7) the predictability of the art, and
- 8) the breadth of the claims.

Applicant fails to set forth the criteria that defines those compounds falling under the "esterase inhibitor" penumbra. Additionally, Applicant fails to provide information allowing the skilled artisan to ascertain these compounds without undue

experimentation. In the instant case, only a limited number of those compounds falling under the "esterase inhibitor" penumbra examples are set forth, thereby failing to provide sufficient working examples. It is noted that these examples are neither exhaustive, nor define the class of compounds required. The pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. The instant claims read on all those compounds falling under the "esterase inhibitor" penumbra, necessitating an exhaustive search for the embodiments suitable to practice the claimed invention. Applicants fail to provide information sufficient to practice the claimed invention, absent undue experimentation.

Claims 14-24, 28 and 29 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.

Claims 14-24, 28 and 29 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 14-24, 28 and 29 are rendered indefinite by the phrase "esterase inhibitor" and thereby failing to clearly set forth the metes and bounds of the patent protection desired. Criteria defining medicaments that fall under the "esterase inhibitor" penumbra are not set forth in the specification, thereby failing to provide information defining the instant inventions metes and bounds. Applicant's term fails to clearly

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define the subject matter encompassed by the instant claims, thus is properly rejected under 35 USC 112, second paragraph.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-24, 28 and 29 are rejected under 35 U.S.C. § 102(b) as being anticipated by McGuigan et al or Perigaud et al

Applicants' attention is directed to *Ex parte Novitski*, 26 USPQ2d 1389 (BOPA 1993) illustrating anticipation resulting from inherent use, absent a *haec verba* recitation for such utility. In the instant application, as in *Ex parte Novitski*, supra, the claims are directed to preventing a malady or disease with old and well known compounds or compositions. It is now well settled law that administering compounds inherently possessing a protective utility anticipates claims directed to such protective use. Arguments that such protective use is not set forth *haec verba* are not probative. Prior use for the same utility clearly anticipates such utility, absent limitations distancing the proffered claims from the inherent anticipated use. Attempts to distance claims from anticipated utilities with specification limitations will not be successful. At page 1391, *Ex parte Novitski*, supra, the Board said "We are mindful that, during the

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patent examination, pending claims must be interpreted as broadly as their terms reasonably allow. *In re Zletz*, 893 F.2d 319, 13 USPQ2d 1320 (Fed. Cir. 1989). As often stated by the CCPA, "we will not read into claims in pending applications limitations from the specification." *In re Winkhaus*, 52 F.2d 637, 188 USPQ 219 (CCPA 1975).". In the instant application, Applicants' failure to distance the proffered claims from the anticipated prophylactic utility, renders such claims anticipated by the prior inherent use.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 14-30 are rejected under 35 U.S.C. § 103 as being unpatentable over McGuigan et al and Perigaud et al in view of Vahlquist and Keller.

McGuigan et al and Perigaud et al teach the claimed compounds as old and well known in combination with various pharmaceutical carriers and excipients in a dosage

form. These medicaments are taught as useful for treating viral infections.

Additionally, these d4t compounds are taught as esterase liable, with inhibition of esterase activity potentiating the antiviral activity of these d4t compounds. Claims 14-24, 28 and 29, and the primary references, differ as to:

- 1) the concomitant employment of these medicaments, and
- 2) administration route of the medicaments.

It is generally considered <u>prima facie</u> obvious to combine two compounds each of which is taught by the prior art to be useful for the same purpose, in order to form a composition which is to be used for the very same purpose. The idea for combining them flows logically from their having been used individually in the prior art. As shown by the recited teachings, the instant claims define nothing more than the concomitant use of an antiviral agent and agents taught to potentiate such antiviral activity. It would follow that the recited claims define <u>prima facie</u> obvious subject matter. Cf. <u>In re Kerhoven</u>, 626 F.2d 848, 205 USPQ 1069 (CCPA 1980).

The instant claims 29 and 30 specifically require an administration of the compounds by conventional means: concomitantly, and parenterally. The Examiner cited prior art fails to teach the compounds administered parenterally. The skilled artisan would have seen parenteral compositions, and the administration of these compounds parenterally as residing in the skilled artisan purview. To administer compounds enhanced by esterase inhibitors with compounds taught as old and well

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known for their esterase activity would have been obvious to the skilled artisan.

Possessing the cited teachings, the skilled artisan would have been motivated to employ the claimed compounds concomitantly, and enjoyed a reasonable expectation of therapeutic success.

No claims are allowed.

Any inquiry concerning this communication should be directed to Russell Travers at telephone number (703) 308-4603.

Russell Travers
Primary Examiner
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